

CLAIMS

What is claimed is:

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1. A method for transmitting A/V data signals in a wireless network comprising:
receiving a stream of A/V data signals, each of the data signals
corresponding to a particular symbol;
arranging the symbols in a series of frames; and
interleaving the symbols in one of the frames with symbols in an adjacent
one of frames in the series of frames.
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2. The method of claim 1 further comprising:
transmitting each of the frames to a remote receiver; and
de-interleaving the samples at the remote receiver.
symbols
3. The method of claim 2 wherein de-interleaving restores the previous series of
frames.
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4. The method of claim 1 wherein interleaving further comprises interleaving
using a predetermined number of symbols.
5. The method of claim 4 wherein the predetermined number of symbols to be
interleaved are selected according to a predetermined spreading computation.
6. The method of claim 5 wherein the predetermined spreading computation is a
dynamic computation.

7. The method of claim 6 wherein the predetermined number of symbols varies as a result of link transmission characteristics.
8. The method of claim 7 wherein the link transmission characteristics are selected from the group consisting of protocol type, bit error rate (BER), signal-to-noise ratio (SNR), framing marker, and sampling rate.
9. The method of claim 1 wherein the receiving the stream of A/V data signals further comprises receiving signals output from a vocoder.
10. The method of claim 1 wherein the A/V data signals are selected from the group consisting of compressed voice, compressed video, and Voice Over IP (VOIP).
11. The method of claim 1 wherein each of the frames contain a predetermined number of symbols.
12. The method of claim 1 further comprising recreating portions of a frame from the interleaved symbols.
13. A system for transmitting A/V data signals in a wireless network comprising:
a stream of A/V data signals, each of the data signals corresponding to a particular symbol;
a frame generator operable to arrange the symbols into a series of frames;
and
a symbol interleaver operable to interleave symbols from one of the series of frames with symbols from an adjacent series of frames.
14. The system of claim 13 further comprising a de-interleaver at a remote receiver and operable to de-interleave the frames.

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15. The system of claim 14 wherein the de-interleaver is operable to restore the previous series of frames.
16. The system of claim 14 wherein the de-interleaver is further operable to recreate portions of a frame from the interleaved symbols.
17. The system of claim 13 wherein the symbol interleaver is further operable to interleave using a predetermined number of symbols.
18. The system of claim 17 wherein the symbol interleaver is further operable to select the predetermined number of symbols according to a predetermined spreading computation.
19. The system of claim 18 wherein the predetermined spreading computation is a dynamic computation.
20. The system of claim 19 wherein the predetermined number of symbols varies as a result of link transmission characteristics.
21. The system of claim 20 wherein the link transmission characteristics are selected from the group consisting of protocol type, bit error rate (BER), signal -to-noise ratio (SNR), framing marker, and sampling rate.
22. The system of claim 13 wherein the stream of A/V signals further comprises receiving signals output from a vocoder.
23. The system of claim 13 wherein the symbol interleaver is further operable to interleave A/V data signals selected from the group consisting of compressed voice, compressed video, and Voice Over IP (VOIP).

24. The system of claim 13 wherein each of the frames contain a predetermined number of symbols.
25. A computer program product having computer program code for transmitting A/V data signals in a wireless network comprising:
- 5 computer program code for receiving a stream of A/V data signals, each of the data signals corresponding to a particular symbol;
- computer program code for arranging the symbols in a series of frames;
- computer program code for interleaving the symbols in one of the frames with symbols in an adjacent one of frames in the series of frames;
- 10 computer program code for transmitting each of the frames to a remote receiver; and
- computer program code for de-interleaving the samples at the remote receiver.
26. A computer data signal for transmitting A/V data signals in a wireless network comprising:
- 15 program code for receiving a stream of A/V data signals, each of the data signals corresponding to a particular symbol;
- program code for arranging the symbols in a series of frames;
- program code for interleaving the symbols in one of the frames with symbols in an adjacent one of frames in the series of frames;
- 20 program code for transmitting each of the frames to a remote receiver; and
- program code for de-interleaving the samples at the remote receiver.
27. A system for transmitting A/V data signals in a wireless network comprising:
- 25 means for receiving a stream of A/V data signals, each of the data signals corresponding to a particular symbol;

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means for arranging the symbols in a series of frames;

means for interleaving the symbols in one of the frames with symbols in an adjacent one of frames in the series of frames;

means for transmitting each of the frames to a remote receiver; and

means for de-interleaving the samples at the remote receiver.

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H. H. H.